

The Flourish Federation—Knowledge Organiser

Brookfield Infant and Junior Schools



Science Focus:

Everyday Materials

Year 1

Term 3/4

What? (Key Knowledge)

Distinguish between an object and the material from which it is made.

Children will need to distinguish between material and object. The materials are the basic stuff from which things are made from. By treating and shaping the material in a range of ways, objects can be created. The basic material will have properties associated with it.

Identify and name a variety of everyday materials, including wood, plastic, glass, water and rock.

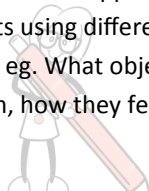
Children will be shown a range of different materials and talk about what they are made from. They will look around the classroom and outside to identify what objects are made from.

Describe the simple physical properties of a variety of everyday materials

Children will use language such as soft, hard, bumpy, smooth, sharp, blunt to describe different materials

Compare and group together a variety of everyday materials on the basis of their physical properties.

Children will have opportunities to sort objects using different properties eg. What objects are made from, how they feel.



What? (Key Vocabulary)

Spelling

Definition

Elastic

Can be stretched and returns to its original state.

Texture

The feel of a material is its texture. Eg rough, smooth, bumpy,

Hardness

How hard or soft a material is.

Strength

How strong a material is. How easily will it break.

Waterproof

How much water a material keeps out.

Properties

Who? (Key People)

John Boyd Dunlop (1840 – 1921)

John Boyd Dunlop was a Scottish inventor. Familiar with making rubber devices, he re-invented pneumatic tyres for his child's tricycle and developed them for use in cycle racing.

Charles Macintosh (176 – 1843)

Charles Macintosh FRS was a Scottish chemist and the inventor of waterproof fabric. The Mackintosh raincoat is named after him.

John McAdam (1756 – 1836)

A civil engineer and road builder. He invented the macadam road surface.

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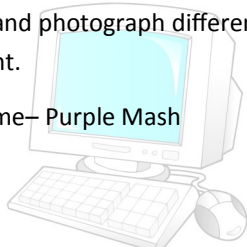
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ICT Opportunities

Using I-pads to find and photograph different materials in the local environment.

Materials sorting game— Purple Mash



Cross - Curriculum Links

Art- testing strength using different materials

Maths - measuring elasticity of different materials

Maths - weight/mass of different materials

Visuals

